

(1) GENERATOR NAME UMETCO MINERALS Corp
ADDRESS 137-47th Street

CITY Niagara Falls STATE NY 14302
CONTACT G E Walck PHONE (716) 278-3361

(2) consigned to
CHEM NUCLEAR SYSTEMS, INC
P O BOX 726 OSBORN ROAD
BARNWELL S C 29812

BARNWELL WASTE MANAGEMENT FACILITY

Operated by CHEM NUCLEAR SYSTEMS, INC
P O Box 726, Barnwell, South Carolina 29812
(803) 259-1781

RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO

PAGE 1

0884-323A

OF 2

(4)

CARRIER TSM ADDRESS Joplin, MO

TELEPHONE (417) 641-7591 SHIPPING DATE 8-15-84

SHIPMENT TYPE VALI SHIPMENT SURFACE EXPOSURE 05 mR/hr

SHIPMENT NO 615-3002 LINER SERIAL NO NA

DRIVER SIGNATURE Bill Z. Wilson DATE 8-15-84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
<u>8</u>	<u>42.215</u>	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS		ACTIVITY (10CFR 20.311)					SOURCE (Pounds)
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ALL ISOTOPES	TRITIUM	C 14	Tc 99	I 129	
<u>520</u>	<u>8</u>	<u>0544</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0.8</u>

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	<u>NA</u>
U 235	<u>↓</u>
TOTAL	<u>↓</u>

(8)

TOTAL PALLET
VOLUME (CU FT) 0

(9) WASTE DESCRIPTION Contaminated Rubble

(10) PHYSICAL FORM/
SOLIDIFICATION AGENT

Solid DAW

(11) CHEMICAL FORM AND
NAME AND % OF CHELATING AGENT(S)

Metal Oxides

(12) WASTE FORM CLASS
A ☐ B ☐ C ☐

(13) ☒ Yes () No THIS VEHICLE IS CONSIGNED EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(14) IMPORTANT This is to certify that the above named materials are properly classified described packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature Earl E Reagan Jr for G.E. Walck

Company agent for Umetco Minerals Corp Date 8-15-84

(15) Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended and the Nuclear Regulatory Commission's License No 12 13536 01 as amended and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment and further certification is made that the inspection revealed no items of non compliance with all applicable laws rules and regulations

Date 8-15-84 By Earl E Reagan Jr for G.E. Walck

Title and Organization Agent for Umetco Minerals Corp.

Telephone No (803) 256-4355 / (716) 278-3361

☒ This material meets all license requirements

☒ This material was disposed of in accordance with license

☐ Discrepancy None

Date 8-23-84

Authorized Signature S. H. H. H.

Title S. H. H. H.

UCCNHT0002255

THE KATKAT NATION

CONINUATION SHEET

UCCNHT0002256

RECEIVED 1960 APR 11

00:01 78/81/80

TO: L. ROUSE

SHIPMENT 0884-323A

PAGE 2 of 2

Adopt 715 West, 10

Form No. CNS-101
(9-83)

[illegible]

Tri-State Motor Transit Company

Name of Carrier

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

Umetco Minerals Corporation

AT Marietta, Ohio
Niagara Falls, NY

Aug. 15, 19 84 From

METALS DIVISION
UNION CARBIDE CORPORATION

For use via carrier truck under the exclusive/sole use shipments/movements

the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route otherwise to deliver to another carrier on the route to said destination It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof if this is a rail or a rail water shipment or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

Consigned to CHEM-NUCLEAR SYSTEMS, INC.
XXXXXXXXXXXX BARNWELL MANAGEMENT FACILITIES

SHIPPER'S ORDER NO

CUSTOMER'S ORDER NO

Destination Uxvan BARNWELL (Osborn Road) State XXXXXX S. Carolina County XXXXXX BARNWELL

Route

Delivering Carrier Tri-State Motor Transit Car or Vehicle Initials 4097 No 425104 Seal No 262502

No Packages	Kind of Package, Description of Articles, Special marks, and Exceptions	*Weight (Sub to correction)	†Class or Rate	Check Column	Subject to Section 7 of Conditions of applicable bill of lading if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges (Signature of consignor) XXXXXXXXXXXXXXXXXXXX If charges are to be prepaid, write or stamp here: To be Prepaid. XXXXXXXXXXXXXXXXXXXX Third Party PREPAID (SEE BELOW)*
8	Radioactive Materials LSA nos (520 cu. ft.) Radioactive Material, U-235 U-Natural Uranium/Thorium Residues (From Chemical Processing) 0016 Max Curies per Package Less than one (1) pound source material - solid, metal oxide, contaminated building rubble, wood and plant equipment.				
This is to certify that the above named materials are properly classified described packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation Signed <i>A. E. Walick</i>					Received \$ to apply in prepayment of the charges on the property described hereon Agent or Cashier
Vehicle assigned for sole use of consignor Do not load other freight on the vehicle do not transfer in route and do not break the seal on truck					Per (The signature here acknowledges only the amount prepaid) Charges advanced
Carrier hereby acknowledges that prior to or at the time this shipment was offered for transportation the shipper provided or affixed according to applicable regulations the required placards or orange panels (including prescribed identification numbers) for each hazardous material named hereon Signed <i>D. L. S. W. D.</i>					\$ This shipment is correctly described Correct weight is _____ lbs Subject to verification by the *L. G. Evans Umetco Minerals Corp. P. O. Box 97 Niagara Falls, NY 14200

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

METALS DIVISION
UNION CARBIDE CORPORATION

Umetco Minerals Corporation

Shipper

Agent

Per *A. E. Walick*
(G. E. Walick)

Per

Permanent postoffice address of shipper UC 326-34

UCCNHT0002257

Form RHA-PNC
(5/80)SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper: Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment: (a) Name G. E. Walck (b) Title Construction Superintendent (c) Telephone No (716) 278-3361	
3. Radioactive Waste Transport Permit No. 0211-31-84-X		4. Shipment Identification No.: 0884-323A	
5. Location from which waste will be shipped Same as (1) Above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment: August 15, 1984		8. Estimated Date of Arrival of Shipment August 17, 1984	
9. Carrier. Tri-State Motor Transit	10. Type of Transport Vehicle Closed Van	11. Trailer No. and Owner (if available)	
12. Routes shipment will follow in State of South Carolina (Be Specific) I-20, I-26, US-321, S.C. 3 and S.C. 64			

Manifest Summary			
13. Type Container or Cask Wood Boxes	14. Container Spec CFR 49 173.392 (c)	15. Total No. of Containers 8	
16. Waste Description, Physical and Chemical Form Metal Oxides, Bldg. Rubble, Wood and Plant Hardware		17. Prominent Radionuclides Uranium (Nat.) .0028 Thorium (Nat.) .004	
18. Total Curies .068	19. Transport Group III	20. Total Cubic Feet 520	
21. Waste Classification			
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	Normal Form	Special Form
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity
		<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III	

UN2912

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act.

Date August 8, 1984

G. E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper


Signature (G. E. Walck)

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received.

Date of Delivery

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

DHEC 802

Original: S. Carolina (5/80)
Copy: Chem-Nuclear
(Copies of this form may be reproduced locally as needed)

UCCNHT0002258

General Instructions and Information

1. This form is to be used to provide the Department with prior notification of radioactive waste shipments transported into or within the State of South Carolina. This notification is to be made 72 hours before the expected date of arrival in the State. All written notices should be mailed to:

Bureau of Radiological Health
Radioactive Waste Management Section
S.C. Dept. of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

2. A separate form shall be submitted for each radioactive waste shipment.
3. Prior notification is required of all radioactive waste shipments as defined in paragraph 2 of Interim Regulations for the Transportation of Radioactive Waste into or within South Carolina except as provided in paragraph 4.1.2 of the Regulation.
4. The "Manifest Summary" portion of this form will satisfy requirements of providing the Department with a shipping manifest, however, it does not satisfy the requirements of shipping documents which shall accompany the shipments as required by DOT Regulations and the disposal facility's license and criteria.
5. A copy of this completed form shall be provided to the carrier and all drivers of the radioactive waste shipment.
6. Upon delivery of the shipment to the consignee, acknowledgement of receipt shall be obtained, and a copy of this form and the shipper/carrier's certification form shall be returned to the Department.

Specific Instructions

Item Number

1. Self Explanatory
2. Self Explanatory
3. This item applies to all shipments of radioactive waste transported to and within the State of South Carolina.
4. Each shipment of radioactive waste shall be identified in some manner by the shipper. This number can be a radioactive shipment record number, bill of lading number, allocation number, etc. The identification number shall only be used once to identify the one shipment for which notification is being made.
5. Self Explanatory
6. Indicate in this item the disposal facility, company, organization, etc., to which this shipment has been consigned.
7. Self Explanatory
8. For through shipments, indicate in this item estimated date shipment will pass through the state.
9. Self Explanatory
10. & 11. Applies only to exclusive use, sole use, and full load shipments.
12. All routing information must be specific. You should check with carrier to insure routes you prescribe are appropriate. The carrier is responsible to inform the Department of any changes of routes in South Carolina after departure.
- 13 thru 21. Self Explanatory

Certification: To be signed only by an authorized representative or agent of the shipper and carrier.

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
Radioactive Waste Shipment Certification Form

General Instructions and Information: This is a two part form to be used by shippers and carriers of radioactive waste. The certifications contained herein satisfy the requirements of Section 13-7-150, of Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act. This certification along with a copy of the prior notification form shall accompany each shipment of radioactive waste into and within the State of South Carolina. The shipper is to complete his portion of the form and present it to the carrier as part of the shipping documents. Upon receipt, the carrier shall complete his portion of the form. Upon delivery of the shipment to the consignee, a copy of this certification form, and a copy of the Prior Notification and Manifest form with the consignee acknowledgement, shall be returned to the Department.

Part I: Shipper's Certificate of Compliance

1. Name of Shipper and Address: Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302 Telephone No. (716) 278-3361	2. Shipment Identification No. 0884-323A
	3. Transport Permit No. 0211-31-84-X

In compliance with Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act, I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the above-named shipper has complied with all provisions of Act No. 499 of 1980, and all applicable laws and administrative rules and regulations, both State and Federal, regarding the packaging, transportation, storage, disposal and delivery of such wastes. I further certify that this shipment of radioactive waste has been inspected within 48 hours of the time of departure and that no items of non-compliance with applicable laws, rules or regulations were found.

Date August 15, 1984

G. E. Walck, Construction Superintendent
Typed Name and Title of Agent of Shipper

G. E. Walck
Signature (G. E. Walck)

Part II: Carrier's Certification

1. Name of Carrier and Address: Tri-State Motor Transit Company P. O. Box 113 Joplin, Missouri 64801 Telephone No. (800) 641-7591	2. Shipment Identification No. 0884-323A
	3. Transport Trailer No. 445104
4. Scheduled Date of Departure of Shipment: August 15, 1984	5. Estimated Date of Arrival of Shipment: August 17, 1984

Certification is hereby made to the South Carolina Department of Health and Environmental Control that: (a) the shipper has provided the carrier with a copy of the shipment manifest, the certificate of compliance, and the routing instructions; (b) the shipment of radioactive waste has been properly placarded for transport according to applicable U.S. Department of Transportation Regulations; (c) all shipping papers originated or reproduced by the carrier have been properly executed; (d) the transport vehicle has been inspected according to applicable State and Federal regulations within the prescribed intervals and that all safety and operational components are in good working order and meet the requirements of regulations; (e) all drivers who will operate the vehicle within the State of South Carolina are qualified to transport hazardous materials as specified by applicable U.S. Department of Transportation regulations; (f) the Department shall be immediately notified of any variance, occurring after departure, from the shipper's notification of primary routes in South Carolina and estimated date of arrival; (g) all applicable laws and administrative rules and regulations, both State and Federal, regarding the transportation of radioactive wastes will be complied with.

Date August 15, 1984

Billy F. Wells Driver
Typed or Printed Name and Title

Billy F. Wells
Signature

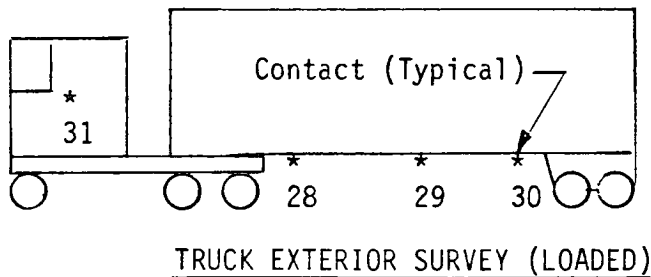
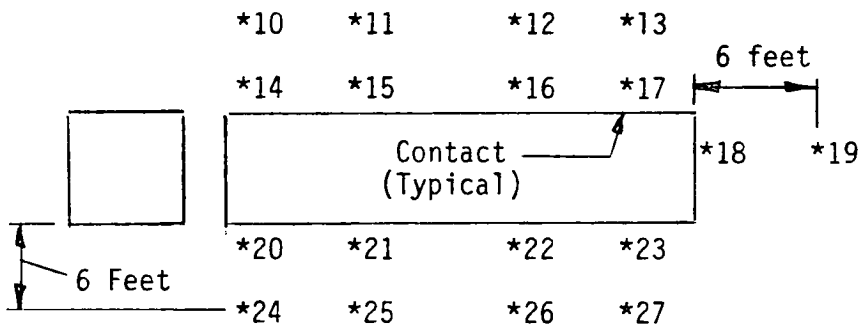
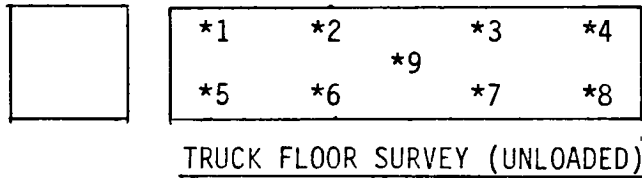
UMETCO MINERALS CORPORATION
NIAGARA FALLS, NEW YORK

DATE 8-15-84

TRACTOR NO. 4097

SHIPMENT NO. 615-3002

TRAILER NO. 445104



NO.	δ	B
1	.005	60
2	.008	—
3	.008	—
4	.008	60
5	.004	80
6	.006	—
7	.007	—
8	.006	50
9	—	60
10	.028	—
11	.026	—
12	.018	—
13	.027	—
14	.012	—
15	.012	—
16	.012	—
17	.011	—
18	.020	—
19	.011	—
20	.026	—
21	.026	—
22	.021	—
23	.023	—
24	.012	—
25	.012	—
26	.013	—
27	.011	—
28	.090	—
29	.014	—
30	.042	—
31	.006	—

LEGEND:

* Location of Reading

δ = mR/hr Ludlum Model 19 (S/N 22534)

B = dpm/100 cm² Ludlum Model 15 (S/N 28886)
w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

J E Wald
(Survey performed by)

UCCNHT0002261

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-13-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-109 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5008

RADIATION SURVEY (Total)

CONTACT .050 mR/hr.

3 FEET .017 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A-23573

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-13-84

CONTAINER SURVEY

BOX CONTROL NO. UM84-110 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5169

RADIATION SURVEY (Total)

CONTACT .055 mR/hr.

3 FEET .017 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A-23574

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002263

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-13-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84 - III BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5312

RADIATION SURVEY (Total)

CONTACT .050 mR/hr.

3 FEET .020 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A - 23575

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-13-84

CONTAINER SURVEY

BOX CONTROL NO. UM84-112 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5364

RADIATION SURVEY (Total)

CONTACT .060 mR/hr.

3 FEET .018 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A-23576

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-13-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-113 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5182

RADIATION SURVEY (Total)

CONTACT .055 mR/hr.

3 FEET .016 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A - 23 577

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002266

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-13-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-114 BOX CAULKED YES

BOX BANDED YES BOX WEIGHT 5176

RADIATION SURVEY (Total)

CONTACT .055 mR/hr.

3 FEET .016 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A-23578

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-13-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-115 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5854

RADIATION SURVEY (Total)

CONTACT .040 mR/hr.

3 FEET .018 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A-23579

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

UCCNHT0002268

Umetco Minerals Corporation
Niagara Falls, New York

Date 8-13-84

CONTAINER SURVEY

BOX CONTROL NO. UM 84-116 BOX CAULKED YES
BOX BANDED YES BOX WEIGHT 5150

RADIATION SURVEY (Total)

CONTACT .045 mR/hr.

3 FEET .015 mR/hr.

INSTRUMENT Ludlum Model 19

SERIAL NUMBER 22534

RADIATION SURVEY (Removable)

SMEAR NO. A-23580

0 dpm/100cm² α

BKG dpm/100cm² β

INSTRUMENT NMC Model PC-55

SERIAL NUMBER 81-2712-05

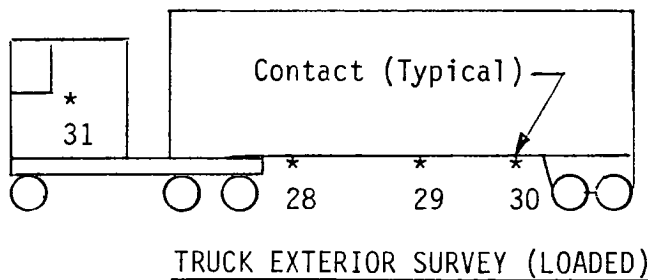
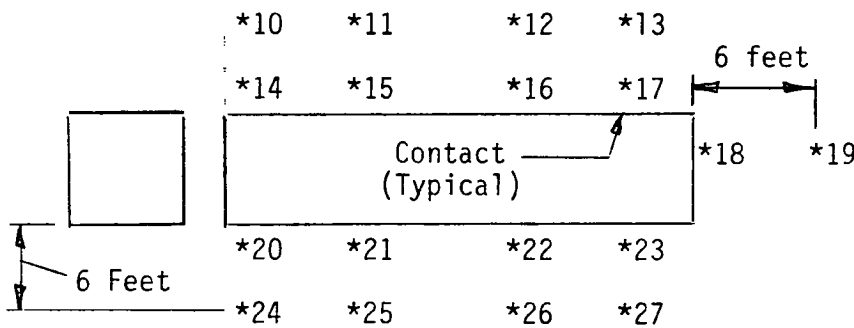
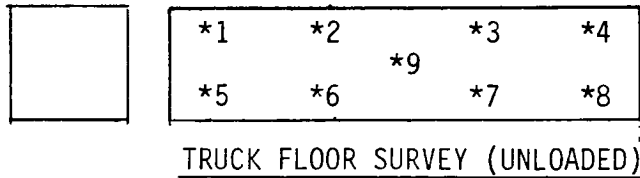
UMETCO MINERALS CORPORATION
NIAGARA FALLS, NEW YORK

DATE 8-15-84

TRACTOR NO. 4097

SHIPMENT NO. 615-3002

TRAILER NO. 445104



NO.	σ	β
1	.005	60
2	.008	—
3	.008	—
4	.008	60
5	.004	80
6	.006	—
7	.007	—
8	.006	50
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14	.012	—
15	.012	—
16	.012	—
17	.011	—
18	.020	—
19	.011	—
20	.026	—
21	.026	—
22	.021	—
23	.023	—
24	.012	—
25	.012	—
26	.013	—
27	.011	—
28	.090	—
29	.014	—
30	.042	—
31	.006	—

LEGEND:

* Location of Reading

σ = mR/hr Ludlum Model 19 (S/N 22534)

β = dpm/100 cm² Ludlum Model 15 (S/N 28886)
w/Ludlum Model 44-9 Probe (S/N 12708) - Eff. 42%

S. E. Wald
(Survey performed by)

UCCNHT0002270

Union Carbide Corporation

LINDE DIVISION • GAS PRODUCTS COMPLEX

4501 ROYAL AVENUE NIAGARA FALLS, N.Y. 14304

WEIGHT TICKET

10:01A08/21/84
44 5105 3215
22 2 22
GROSS 104200

10:02A08/21/84
5105 3215
22 2 22
GROSS 104200

10:03A08/21/84
5105 3215
22 2 22
GROSS 73040
80420
81820

10:03A08/21/84
5105 3215
22 2 22
GROSS 31400

Union Carbide Corporation

LINDE DIVISION • GAS PRODUCTS COMPLEX

4501 ROYAL AVENUE • NIAGARA FALLS, N Y 14304

WEIGHT TICKET

08/22405/21/84
445106 3216
1722 2 22
GROSS 315406

10:03408/21/84
5455 3216
GROSS 73080
TARE 41540
NET 31540

(1) GENERATOR NAME UMETCO MINERALS CORP.
ADDRESS 137 - 47th Street
CITY Niagara Falls STATE New York
CONTACT G.E. Walck PHONE (716)278-3361

(2) **consigned to**
CHEM NUCLEAR SYSTEMS, INC
P O BOX 726, OSBORN ROAD
BARNWELL, S C 29812

BARNWELL WASTE MANAGEMENT FACILITY
Operated by CHEM-NUCLEAR SYSTEMS, INC
P O Box 726, Barnwell, South Carolina 29812
(803) 259-1781
RADIOACTIVE SHIPMENT MANIFEST FORM

(3) USE THIS NUMBER ON
ALL CONTINUATION PAGES

VOLUME ALLOCATION NO
0884-324A

PAGE 1
OF 2

(4) **Tri-**
CARRIER State ADDRESS Joplin, Missouri 64801
TELEPHONE 417-624-3131 SHIPPING DATE 8-21-84
SHIPMENT TYPE Van SHIPMENT SURFACE EXPOSURE .046 mR/hR
SHIPMENT NO 615-3003 LINER SERIAL NO -----
DRIVER SIGNATURE Robert Decker DATE 8/21/84

(5) TOTAL FOR EACH CLASS		PROPER SHIPPING NAME & HAZARD CLASS (PER 49 CFR 172.101)	ID NUMBER
NO OF PACKAGES	WEIGHT (Pounds)		
		Radioactive Material, empty packages	UN2908
		Radioactive Material, fissile, n o s —Radioactive Material	UN2918
8	41102	Radioactive Material, low specific activity, n o s —Radioactive Material	UN2912
		Radioactive Material, n o s —Radioactive Material	UN2982
		Radioactive Material, limited quantity, n o s —Radioactive Material	UN2910
		Radioactive Material, special form, n o s —Radioactive Material	UN2974
		Radioactive Material, instruments and articles—Radioactive Material	UN2911
		Other (Specify)	

(6) SHIPMENT TOTALS							
VOLUME (Cubic Feet)	TOTAL NO OF PACKAGES	ACTIVITY (10CFR 20.311)					SOURCE (Pour dis)
		ALL ISOTOPES	TRITIUM	C 14	Tc 99	I 129	
520	8	.054	NP	NP	NP	NP	0.8

(7) TOTAL SNM	
ISOTOPE	GRAMS
U 233	N/A
U 235	↓
TOTAL	

(8) TOTAL PALLET
VOLUME (CU FT) N/A

(9) WASTE DESCRIPTION Contaminated Soil
Misc. Debris

(10) PHYSICAL FORM/
SOLIDIFICATION AGENT Solid

(11) CHEMICAL FORM AND
NAME AND % OF CHELATING AGENT(S) Metal Oxides

(12) WASTE FORM CLASS
☒ A ☐ B ☐ C

(13) (X) Yes () No THIS VEHICLE IS CONSIGNEE EXCLUSIVE USE LOADING AND UNLOADING MUST BE ACCOMPLISHED BY CONSIGNOR OR CONSIGNEE OR HIS DESIGNATED AGENT

(14) IMPORTANT "This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Signature G.E. Walck
Company Umetco Minerals Corp. Date 8-21-84

(15) "Certification is hereby made to the South Carolina Department of Health and Environmental Control that this shipment of low level radioactive waste has been inspected in accordance with the requirements of South Carolina Radioactive Material License No 097 as amended, and the Nuclear Regulatory Commission's License No 12 13536 01 as amended, and the effective Barnwell Site Disposal Criteria within 48 hours prior to shipment, and further certification is made that the inspection revealed no items of non compliance with all applicable laws, rules and regulations

Date 8-21-84 By G.E. Walck
Title and Organization Const. Supt. - Umetco
Telephone No (716) 278-3361

- ☒ This material meets all license requirements
☒ This material was disposed of in accordance with license
☐ Discrepancy

Date

Authorized Signature

AUG 30 1984

UCCNHT0002273

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTRL
Radioactive Waste Shipment Prior Notification and Manifest Form

See Reverse Side for Instructions

1. Name and Address of Shipper Umetco Minerals Corporation 137 47th Street Niagara Falls, NY 14302		2. Person Responsible for Radioactive Waste Shipment (a) Name G. E. Walck (b) Title Construction Superintendent (c) Telephone No. (716) 278-3361	
3. Radioactive Waste Transport Permit No 0211-31-84-X		4. Shipment Identification No.: 0884-324A	
5. Location from which waste will be shipped Same as (1) Above		6. Name and Address of Consignee Chem-Nuclear Systems, Inc. P.O. Box 726 Barnwell, South Carolina 29812	
7. Scheduled Date of Departure of Shipment August 21, 1984		8. Estimated Date of Arrival of Shipment August 23, 1984	
9. Carrier Tri-State Motor Transit	10. Type of Transport Vehicle Closed Van	11. Trailer No and Owner (if available)	
12. Routes shipment will follow in State of South Carolina (Be Specific)			

I-20, I-26, US-321, S.C. 3 and S.C. 64

Manifest Summary

13. Type Container or Cask	14. Exemption Spec	15. Total No. of Containers
Wood Boxes	CFR 49 173.392 (c)	8
16. Waste Description, Physical and Chemical Form	17. Prominent Radionuclides	
Contaminated Solids, Metal Oxides, Bldg. Rubble, Wood and Plant Hardware	Uranium (Nat.) .0028 Thorium (Nat.) .004	
18. Total Curies	19. Transport Group	20. Total Cubic Feet
.068	III	520
21. Waste Classification		
<input checked="" type="checkbox"/> Radioactive LSA	<input type="checkbox"/> Bulk LSA	<input type="checkbox"/> Normal Form
<input type="checkbox"/> Radioactive LSA greater than Type A quantities	<input type="checkbox"/> Limited quantities and radioactive devices	<input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity
		<input type="checkbox"/> Special Form <input type="checkbox"/> Type A quantity <input type="checkbox"/> Type B quantity <input type="checkbox"/> Large quantity
		<input type="checkbox"/> Fissile <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III

UN2912

CERTIFICATION

I hereby certify on behalf of the above-named shipper to the South Carolina Department of Health and Environmental Control that the information provided herein is complete and correct to the best of my knowledge, and that the shipper has complied with all the provisions as required by Act No. 499 of 1980, the South Carolina Radioactive Waste Transportation and Disposal Act

Date August 8, 1984

G. E. Walck - Construction Supt.
Typed Name and Title of Agent of Shipper

(Signature) G. E. Walick

CONSIGNEE ACKNOWLEDGEMENT

This acknowledges to the South Carolina Department of Health and Environmental Control that the above-described radioactive waste shipment was received

Date of Delivery

Signature of Consignee or authorized Agent

Typed or Printed Name and Title

3.0 AT DESTINATION (Union Carbide Corporation, Uravan, Colorado)

- 3.1 Give notification of arrival and receive guidance to unloading site.
- 3.2 Examine security seals and inspect outside of truck for damage or pilfering.
- 3.3 The shipment must be unloaded by Consignor from the transport vehicle in which originally loaded.
- 3.4 UCC or its representative will certify vehicles clean and available for Unrestricted Use and decontaminate if necessary.

4.0 PENALTY

- 4.1 Any deviation from these instructions or violations of State and Federal laws could result in carrier penalty.



Driver's Signature



Date